

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/672,108A
Source: 1FW/6
Date Processed by STIC: 3/23/06

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/672,108A

CRF Edit Date: 3/24/06
Edited by: h

___ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

___ Corrected the SEQ ID NO. Sequence numbers edited were:

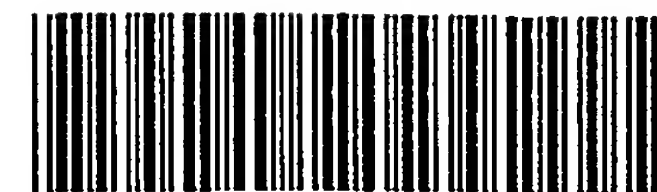
___ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

___ Deleted: invalid beginning/end-of-file text ; page numbers

___ Inserted mandatory headings/numeric identifiers, specifically:

___ Moved responses to same line as heading/numeric identifier, specifically:

___ Other:



IFW16

RAW SEQUENCE LISTING

DATE: 03/24/2006

PATENT APPLICATION: US/10/672,108A

TIME: 17:10:33

Input Set : N:\AMC\J672108A.RAW

Output Set: N:\CRF4\03242006\J672108A.raw

1 <110> APPLICANT: Hellinga, Homme W.

2 Sloan, David J.

3 <120> TITLE OF INVENTION: NOVEL REAGENTS FOR AFFINITY-PURIFICATION OF ANTIBODY

FRAGMENTS

4 <130> FILE REFERENCE: Docket No. 180-106 Sequence Listing

C--> 5 <140> CURRENT APPLICATION NUMBER: US/10/672,108A

6 <141> CURRENT FILING DATE: 2003-09-25

7 <160> NUMBER OF SEQ ID NOS: 30

8 <170> SOFTWARE: PatentIn Ver. 2.0

10 <210> SEQ ID NO: 1

11 <211> LENGTH: 195

12 <212> TYPE: DNA

13 <213> ORGANISM: Streptococcus sp.

14 <220> FEATURE:

15 <221> NAME/KEY: CDS

W--> 16 <222> LOCATION: (-1)..(195)

17 <400> SEQUENCE: 1

18 atg act act tac aaa tta atc ctt aat ggt aaa aca ttg aaa ggc gaa 48

19 Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu

20 -1 1 5 10 15

21 aca act act gaa gct gtt gat gct gct act gca gaa aaa gtc ttc aaa 96

22 Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Glu Lys Val Phe Lys

23 20 25 30

24 caa tac gct aac gac aac ggt gtt gac ggt gaa tgg act tac gac gat 144

25 Gln Tyr Ala Asn Asp Asn Gly Val Asp Gly Glu Trp Thr Tyr Asp Asp

26 35 40 45

27 gcg act aag acc ttt aca gtt act gaa cat cac cat cat cac taa gct 192

28 Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His Ala

29 50 55 60

30 tga 195

32 <210> SEQ ID NO: 2

33 <211> LENGTH: 62

34 <212> TYPE: PRT

35 <213> ORGANISM: Streptococcus sp.

36 <400> SEQUENCE: 2

37 Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu

38 -1 1 5 10 15

39 Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Glu Lys Val Phe Lys

40 20 25 30

41 Gln Tyr Ala Asn Asp Asn Gly Val Asp Gly Glu Trp Thr Tyr Asp Asp

42 35 40 45

43 Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His

44 50 55 60

46 <210> SEQ ID NO: 3

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/672,108A

DATE: 03/24/2006

TIME: 17:10:33

Input Set : N:\AMC\J672108A.RAW

Output Set: N:\CRF4\03242006\J672108A.raw

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47 <211> LENGTH: 62
48 <212> TYPE: PRT
49 <213> ORGANISM: Streptococcus sp.
50 <400> SEQUENCE: 3
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52 -1 1 5 10 15
53 Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Glu Lys Val Phe Lys
54 20 25 30
55 Cys Tyr Ala Asn Asp Asn Gly Val Asp Gly Glu Trp Thr Tyr Asp Asp
56 35 40 45
57 Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His
58 50 55 60
60 <210> SEQ ID NO: 4
61 <211> LENGTH: 62
62 <212> TYPE: PRT
63 <213> ORGANISM: Streptococcus sp.
64 <400> SEQUENCE: 4
65 Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu
66 -1 1 5 10 15
67 Thr Thr Thr Glu Ala Val Asp Ala Ala Ala Glu Lys Val Phe Lys
68 20 25 30
69 Gln Tyr Ala Asn Asp Asn Gly Val Asp Gly Glu Trp Thr Tyr Asp Asp
70 35 40 45
71 Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His
72 50 55 60
74 <210> SEQ ID NO: 5
75 <211> LENGTH: 195
76 <212> TYPE: DNA
77 <213> ORGANISM: Streptococcus sp.
78 <220> FEATURE:
79 <221> NAME/KEY: CDS
W--> 80 <222> LOCATION: (-1)..(195)
81 <400> SEQUENCE: 5
82 atg act act tac aaa tta atc ctt aat ggt aaa aca ttg aaa ggc gaa 48
83 Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu
84 -1 1 5 10 15
85 aca act act gaa gct gtt gat gct gct act gca gcg aaa gtc ttc aaa 96
86 Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Ala Lys Val Phe Lys
87 20 25 30
88 caa tac gct aac gac aac ggt gtt gac ggt gaa tgg act tac gac gat 144
89 Gln Tyr Ala Asn Asp Asn Gly Val Asp Gly Glu Trp Thr Tyr Asp Asp
90 35 40 45
91 gcg act aag acc ttt aca gtt act gaa cat cac cat cat cac taa gct 192
92 Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His Ala
93 50 55 60
94 tga 195
96 <210> SEQ ID NO: 6
97 <211> LENGTH: 62
98 <212> TYPE: PRT

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RAW SEQUENCE LISTING

DATE: 03/24/2006

PATENT APPLICATION: US/10/672,108A

TIME: 17:10:33

Input Set : N:\AMC\J672108A.RAW

Output Set: N:\CRF4\03242006\J672108A.raw

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99 <213> ORGANISM: Streptococcus sp.
100 <400> SEQUENCE: 6
101      Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu
102      -1  1              5              10              15
103      Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Ala Lys Val Phe Lys
104              20              25              30
105      Gln Tyr Ala Asn Asp Asn Gly Val Asp Gly Glu Trp Thr Tyr Asp Asp
106              35              40              45
107      Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His
108              50              55              60
110 <210> SEQ ID NO: 7
111 <211> LENGTH: 195
112 <212> TYPE: DNA
113 <213> ORGANISM: Streptococcus sp.
114 <220> FEATURE:
115 <221> NAME/KEY: CDS
W--> 116 <222> LOCATION: (-1)..(195)
117 <400> SEQUENCE: 7
118      atg act act tac aaa tta atc ctt aat ggt aaa aca ttg aaa ggc gaa      48
119      Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu
120      -1  1              5              10              15
121      aca act act gaa gct gtt gat gct gct act gca gaa gcg gtc ttc aaa      96
122      Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Glu Ala Val Phe Lys
123              20              25              30
124      caa tac gct aac gac aac ggt gtt gac ggt gaa tgg act tac gac gat      144
125      Gln Tyr Ala Asn Asp Asn Gly Val Asp Gly Glu Trp Thr Tyr Asp Asp
126              35              40              45
127      gcg act aag acc ttt aca gtt act gaa cat cac cat cat cac taa gct      192
128      Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His      Ala
129              50              55              60
130      tga      195
132 <210> SEQ ID NO: 8
133 <211> LENGTH: 62
134 <212> TYPE: PRT
135 <213> ORGANISM: Streptococcus sp.
136 <400> SEQUENCE: 8
137      Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu
138      -1  1              5              10              15
139      Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Glu Ala Val Phe Lys
140              20              25              30
141      Gln Tyr Ala Asn Asp Asn Gly Val Asp Gly Glu Trp Thr Tyr Asp Asp
142              35              40              45
143      Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His
144              50              55              60
146 <210> SEQ ID NO: 9
147 <211> LENGTH: 195
148 <212> TYPE: DNA
149 <213> ORGANISM: Streptococcus sp.
150 <220> FEATURE:

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RAW SEQUENCE LISTING

DATE: 03/24/2006

PATENT APPLICATION: US/10/672,108A

TIME: 17:10:33

Input Set : N:\AMC\J672108A.RAW

Output Set: N:\CRF4\03242006\J672108A.raw

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151 <221> NAME/KEY: CDS
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153 <400> SEQUENCE: 9
154      atg act act tac aaa tta atc ctt aat ggt aaa aca ttg aaa ggc gaa 48
155      Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu
156      -1  1                    5                      10                15
157      aca act act gaa gct gtt gat gct gct act gca gaa aaa gtc ttc gcg 96
158      Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Glu Lys Val Phe Ala
159                        20                      25                30
160      caa tac gct aac gac aac ggt gtt gac ggt gaa tgg act tac gac gat 144
161      Gln Tyr Ala Asn Asp Asn Gly Val Asp Gly Glu Trp Thr Tyr Asp Asp
162                        35                      40                45
163      gcg act aag acc ttt aca gtt act gaa cat cac cat cat cac taa gct 192
164      Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His Ala
165                        50                      55                60
166      tga 195
168 <210> SEQ ID NO: 10
169 <211> LENGTH: 62
170 <212> TYPE: PRT
171 <213> ORGANISM: Streptococcus sp.
172 <400> SEQUENCE: 10
173      Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu
174      -1  1                    5                      10                15
175      Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Glu Lys Val Phe Ala
176                        20                      25                30
177      Gln Tyr Ala Asn Asp Asn Gly Val Asp Gly Glu Trp Thr Tyr Asp Asp
178                        35                      40                45
179      Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His
180                        50                      55                60
182 <210> SEQ ID NO: 11
183 <211> LENGTH: 195
184 <212> TYPE: DNA
185 <213> ORGANISM: Streptococcus sp.
186 <220> FEATURE:
187 <221> NAME/KEY: CDS
W--> 188 <222> LOCATION: (-1)..(195)
189 <400> SEQUENCE: 11
190      atg act act tac aaa tta atc ctt aat ggt aaa aca ttg aaa ggc gaa 48
191      Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu
192      -1  1                    5                      10                15
193      aca act act gaa gct gtt gat gct gct act gca gaa aaa gtc ttc aaa 96
194      Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Glu Lys Val Phe Lys
195                        20                      25                30
196      caa tac gct gcg gac aac ggt gtt gac ggt gaa tgg act tac gac gat 144
197      Gln Tyr Ala Ala Asp Asn Gly Val Asp Gly Glu Trp Thr Tyr Asp Asp
198                        35                      40                45
199      gcg act aag acc ttt aca gtt act gaa cat cac cat cat cac taa gct 192
200      Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His Ala
201                        50                      55                60

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RAW SEQUENCE LISTING

DATE: 03/24/2006

PATENT APPLICATION: US/10/672,108A

TIME: 17:10:33

Input Set : N:\AMC\J672108A.RAW

Output Set: N:\CRF4\03242006\J672108A.raw

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202          tga
204 <210> SEQ ID NO: 12
205 <211> LENGTH: 62
206 <212> TYPE: PRT
207 <213> ORGANISM: Streptococcus sp.
208 <400> SEQUENCE: 12
209      Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu
210      -1  1              5              10              15
211      Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Glu Lys Val Phe Lys
212              20              25              30
213      Gln Tyr Ala Ala Asp Asn Gly Val Asp Gly Glu Trp Thr Tyr Asp Asp
214              35              40              45
215      Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His
216              50              55              60
218 <210> SEQ ID NO: 13
219 <211> LENGTH: 62
220 <212> TYPE: PRT
221 <213> ORGANISM: Streptococcus sp.
222 <400> SEQUENCE: 13
223      Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu
224      -1  1              5              10              15
225      Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Glu Lys Val Phe Lys
226              20              25              30
227      Gln Tyr Ala Asn Asp Asn Gly Val Ala Gly Glu Trp Thr Tyr Asp Asp
228              35              40              45
229      Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His
230              50              55              60
232 <210> SEQ ID NO: 14
233 <211> LENGTH: 62
234 <212> TYPE: PRT
235 <213> ORGANISM: Streptococcus sp.
236 <400> SEQUENCE: 14
237      Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu
238      -1  1              5              10              15
239      Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Glu Lys Val Phe Lys
240              20              25              30
241      Gln Tyr Ala Asn Asp Asn Gly Val Asp Gly Ala Trp Thr Tyr Asp Asp
242              35              40              45
243      Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His
244              50              55              60
246 <210> SEQ ID NO: 15
247 <211> LENGTH: 195
248 <212> TYPE: DNA
249 <213> ORGANISM: Streptococcus sp.
250 <220> FEATURE:
251 <221> NAME/KEY: CDS
W--> 252 <222> LOCATION: (-1)..(195)
253 <400> SEQUENCE: 15
254      atg act act tac aaa tta atc ctt aat ggt aaa aca ttg aaa ggc gaa

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195

48

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/672,108A

DATE: 03/24/2006
TIME: 17:10:34

Input Set : N:\AMC\J672108A.RAW
Output Set: N:\CRF4\03242006\J672108A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:25; Xaa Pos. 27
Seq#:26; Xaa Pos. 28
Seq#:27; Xaa Pos. 31
Seq#:28; Xaa Pos. 35
Seq#:29; Xaa Pos. 43
Seq#:30; Xaa Pos. 44,45

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 3
Seq#:25; Line(s) 433
Seq#:26; Line(s) 451
Seq#:27; Line(s) 469
Seq#:28; Line(s) 487
Seq#:29; Line(s) 505
Seq#:30; Line(s) 523,527

VERIFICATION SUMMARY

DATE: 03/24/2006

PATENT APPLICATION: US/10/672,108A

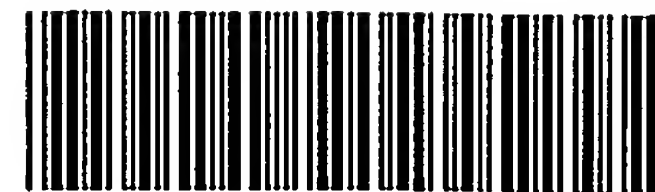
TIME: 17:10:34

Input Set : N:\AMC\J672108A.RAW

Output Set: N:\CRF4\03242006\J672108A.raw

L:5 M:270 C: Current Application Number differs, Wrong Format
 L:16 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:1, CDS LOCATION: (-1)..
 (195)
 L:80 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:5, CDS LOCATION: (-1)..
 (195)
 L:116 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:7, CDS LOCATION: (-1)..
 (195)
 L:152 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:9, CDS LOCATION: (-1)..
 (195)
 L:188 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:11, CDS LOCATION: (-1)..
 (195)
 L:252 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:15, CDS LOCATION: (-1)..
 (195)
 L:288 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:17, CDS LOCATION: (-1)..
 (195)
 L:324 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:19, CDS LOCATION: (-1)..
 (195)
 L:360 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:21, CDS LOCATION: (-1)..
 (195)
 L:396 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:23, CDS LOCATION: (-1)..
 (195)
 L:437 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:16
 L:455 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:16
 L:473 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:16
 L:493 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:32
 L:511 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:32
 L:533 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:32

Raw Sequence Listing before editing (for reference only)



IFW16

RAW SEQUENCE LISTING

DATE: 03/23/2006

PATENT APPLICATION: US/10/672,108A

TIME: 09:37:14

Input Set : N:\SMITH\PTO.TS.17.txt

Output Set: N:\CRF4\03232006\J672108A.raw

3 <110> APPLICANT: Hellinga, Homme W.

4 Sloan, David J.

6 <120> TITLE OF INVENTION: NOVEL REAGENTS FOR AFFINITY-PURIFICATION OF ANTIBODY FRAGMENTS

8 <130> FILE REFERENCE: Docket No. 180-106 Sequence Listing

C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/672,108A

C--> 10 <141> CURRENT FILING DATE: 2003-09-25

10 <160> NUMBER OF SEQ ID NOS: 30

12 <170> SOFTWARE: PatentIn Ver. 2.0

ERRORED SEQUENCES

724 <210> SEQ ID NO: 30

725 <211> LENGTH: 62

726 <212> TYPE: PRT

727 <213> ORGANISM: Streptococcus sp.

730 <220> FEATURE:

731 <221> NAME/KEY: misc_feature

732 <222> LOCATION: (44)..(44)

733 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid, except threonine

735 <220> FEATURE:

736 <221> NAME/KEY: misc_feature

737 <222> LOCATION: (45)..(45)

738 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid, except tyrosine

740 <400> SEQUENCE: 30

742 Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu

743 -1 1 5 10 15

745 Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Glu Lys Val Phe Lys

746 20 25 30

W--> 748 Gln Tyr Ala Asn Asp Asn Gly Val Asp Gly Glu Trp Xaa Xaa Asp Asp

749 35 40 45

751 Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His

752 50 55 60

E--> 753 - 13

E--> 754 - 1 -

**Does Not Comply
Corrected Diskette Needed**

VERIFICATION SUMMARY

DATE: 03/23/2006

PATENT APPLICATION: US/10/672,108A

TIME: 09:37:15

Input Set : N:\SMITH\PTO.TS.17.txt

Output Set: N:\CRF4\03232006\J672108A.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No
 L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
 L:22 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:1, CDS LOCATION: (-1)..
 (195)
 L:111 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:5, CDS LOCATION: (-1)..
 (195)
 L:161 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:7, CDS LOCATION: (-1)..
 (195)
 L:211 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:9, CDS LOCATION: (-1)..
 (195)
 L:261 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:11, CDS LOCATION: (-1)..
 (195)
 L:351 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:15, CDS LOCATION: (-1)..
 (195)
 L:401 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:17, CDS LOCATION: (-1)..
 (195)
 L:451 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:19, CDS LOCATION: (-1)..
 (195)
 L:501 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:21, CDS LOCATION: (-1)..
 (195)
 L:551 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:23, CDS LOCATION: (-1)..
 (195)
 L:610 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:16
 L:636 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:16
 L:662 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:16
 L:691 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:32
 L:717 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:32
 L:748 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:32
 L:753 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:30
 M:332 Repeated in SeqNo=30